Plant and Equipment Expenditures: 1982

NEW plant and equipment expenditures planned by U.S. nonfarm business for 1982 total \$346.4 billion, 7.4 percent more than in 1981, according to the annual survey conducted by BEA in late November and December (table 1 chart 3). Estimated 1981 spending, based on the quarterly survey conducted a month earlier, is \$322.6 billion, 9.1 percent more than in 1980.¹

These data are not adjusted for price change. Spending plans adjusted for price change indicate a 0.5-percent decline in 1982 (table 2). Real spending increased 0.3 percent in 1981, 0.8 percent in 1980, and 7.7 percent in 1979. To estimate real spending, the figures reported by survey respondents are adjusted using price deflators

1. For estimates of prior years, see "Revised Estimates of New Plant and Equipment Expenditures in the United States, 1947-77," pages 42-49, in the October 1980 Survey or CURRENT Business, and the De-

The estimate for 1981 is based on actual expenditures in the first three quarters and plans for the fourth quarter. The plans, collected by BRA in October and November, were adjusted for systematic biases by procedures described in the October 1980

The 1982 plans also were adjusted for systematic biases. The not affect of the adjustments was to raise manufacturing \$0.08 billion and to raise nonmanufacturing \$7.27 billion; before adjustment, plans were \$139.8 billion for manufacturing and \$199.8 billion for nonmanufacturing. Biss adjustments were computed separately for each major industry and were applied unit when plans deviated from actual apending in the same direction for 5 of the last 7 years. In these cases, the adjustment used was the median deviation be-(ween actua) and planned spending in the last 5 years.

cember 1980 jame, page 44.

SURVEY.

prepared by BEA based on unpublished data in the national income and product accounts together with respondents' estimates of capital goods price changes in 1981 and 1982. The deflators developed by BEA indicate that prices of capital goods purchased by business in 1981 increased 8.7 percent and will increase 8.0 percent in 1982. Survey respondents estimated somewhat larger price increases-10.9 percent in 1981 and 10.4 percent in 1982 (table 3).2 Deflators

calculated by BEA for the 1982 spending plans were extrapolated from 1981 deflators, for each industry separately, using the ratio of the expected 1982 price increases to the 1981 price increase reported by respondents.

The BEA quarterly survey of spending plans conducted in October and November and reported in December indicated an increase in spending from the second half of 1981 to the first half of 1982—about 6 percent in current-dollars and 2 percent in real

Table 1.—Expenditures for New Plant and Equipment by U.S. Nonfarm Business, 1980-82

			1980 1981.°	1981 r	1962 1		1981-82	
	1580	19 8 L ?			1980 198L*	Billions of dollars	19 69- 8L	Percent change
Tatal conferm lucinos	296.63	329.81	346,42	9.1	7.4			
Manufacturing	LI5.BI	128.20	139.24	10.7	8.6			
Durable goads. Primary metals * Bleet furnaces, steel works. Nonferrous metals Fabricated metals Fabricated metals Ricetted metalsonery Machinery, except electrical Transportation equipment * Matter effects Aircreft Stone, clay, and glass. Other durables *	9.59 11.59	62.54 8.0) 9.12 8.45 2.92 10.51 13.13 10.12 6.51 8.59	67.61 6.68 3.94 3.16 3.12 12.00 10.73 7.20 3.22 6.06	68 69 -58 -61 -11 -25 68 64 -78 -184 -186	7.7 8.3 28.3 -8.9 6.9 90.8 6.7 4.6 18.1 -2.6			
Numbershie goeds Food including beverage Testides Paper Chemicals Petroteum Rubber Other asadurables *	56.50	95.32 8.28 1.61 6.72 18.75 25.43 1.83 6.70	71.53 9.96 1.69 6.71 14.26 29.58 2.06 T.46	14.8 12.0 6 -1.2 8.2 27.8 8.7 10.3	9.5 13.1 4.8 1 8.7 18.4 12.6 11.8			
Mining Trupsportation Bailroad Air. Other Public utilities Stetric. Gas and other. Trude and services Communication and other *	178.85 13.65 42.65 42.61 43.87 44.13 54.43	194.35 18.80 12.07 4.25 3.95 3.96 37.94 88.83 8.69 88.23 41.27	187.68 18.39 1.53 1.43 1.43 1.43 39.86 31.30 8.66 91.16	8.1 24.4 2 4.4 8.6 7.0 4.6 16.6 13.6	6.6 11.8 10.9 7.0 10.7 6.1 6.2 1.2 6.7 6.8			

^{2.} Respondents were asked: "What are your best estimates of average price changes from 1980 to 1981 and expected price changes from 1981 to 1982:

a. Prices paid by your company for new construction, machinery, and equipment.

[&]quot;b. Prices of goods and/or services sold by your company.

Similar information was obtained in the corresponding annual surveys conducted since 1970. The companies' responses on capital goods and sales price changes were weighted by their reported capital expenditures and sales, respectively.

[·]Protimioary.

^{1.} Planned capital expenditures reported by besiness in late November and December 1981. Plans have been adjusted for

sea. 2. Includes industries not shown separately. 3. Consists of lumber, furnitore, instruments, and miscellassons. 4. Consists of apparet, telepoco, testher, and printing-publishing. 5. Includes construction; social services and membership organizations; and forestry, fisherics, and agricultural services.

terms. However, the interval between the two surveys was characterized by rapidly deteriorating economic conditions and the latest survey results suggest that first-half plans were revised down.

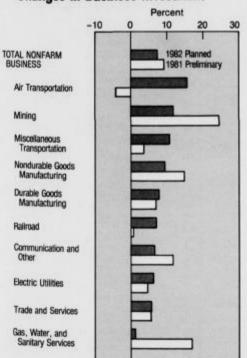
Industry plans

Manufacturers plan an increase in real spending of 0.9 percent in 1982. Durable goods producers account for the increase. Last year, nondurables producers accounted for all of the 1.9percent increase. Nonmanufacturing industries plan a 1.4-percent decline, following an 0.6-percent decline last year; an increase in transportation is more than offset by declines in other major industries.

Manufacturing industries plan current-dollar spending totaling \$139.3 billion, 81/2 percent more than in 1980, when spending increased 101/2 percent. The largest increases are planned by iron and steel, 26 percent; electrical machinery, 21 percent; and aircraft, 18 percent. Increases ranging between 131/2 and 111/2 percent are planned by petroleum, food-beverage, rubber, and "other nondurables." Other industries, except nonferrous

CHART 3

Changes in Business Investment



U.S. Department of Commerce, Bureau of Economic Analysis

metals, plan spending about the same as or a little higher than last year. Nonferrous metals plan a 9-percent

Nonmanufacturing industries plan to spend \$207.1 billion, 61/2 percent more than in 1981. Last year, their spending increased 8 percent. Air transportation, the only major nonmanufacturing industry to report a decline last year, plans a 151/2-percent increase. Mining firms plan a 12-per-

Table 2.—Real Expenditures for New Plant and Equipment by U.S. Nonfarm Business, 1980-82

	1980	1981*	1982 ⁵ Billions of 1972 dollars	1980-81	1981-82 Percent change
Total nonfarm business	158.52	159.07	158.27	0.3	-0.5
Manufacturing Durable goods Nondurable goods	60.10 31.78 28.32	61.26 31.85 29.40	61.79 32.37 29.42	1.9 .2 3.8	.9 1.6 0
Nonmanufacturing Mining Transportation Public utilities Trade and services Communication and other	98.42 5.25 6.13 17.47 47.16 22.42	97.82 5.64 5.68 16.95 46.67 22.88	96.48 5.43 5.88 16.32 46.41 22.45	6 7.3 -7.3 -3.0 -1.0 2.1	-1.4 -3.6 3.5 -3.7 6 -1.9

Table 3.-Change in Prices of Capital Goods Purchased

[Percent change from preceding year]

		in Nov 0 survey	Reported in Nov Dec. 1981 survey		
	Actual	Expected	Actual	Expected	
	1980	1981	1981	1982	
Total nonfarm business	10.8	11.0	10.9	10.4	
Manufacturing Durable goods Nondurable goods	10.6	10.7	10.7	10.1	
	10.4	10.5	10.3	9.7	
	10.8	10.9	11.0	10.5	
Nonmanufacturing Mining Transportation Public utilities Other'	11.0	11.2	11.0	10.6	
	13.2	14.1	13.8	13.7	
	11.1	10.7	10.2	10.1	
	10.5	10.4	10.3	9.5	
	10.9	11.2	10.9	10.6	

^{1.} Includes trade; services; and "communication and other" as defined in table 1.

Table 4.—Percent Change in Business Sales 1

		1982			
	Expected as reported in:			Expected as reported	
	Jan. 1981	Mar. 1981	ar. 1981	in:	
		Section 2		Jan. 1982	
Manufacturing	13.1	12.3	9.1	11.5	
Durable goods 1	13.5	12.2	10.0	13.1	
Primary metals	11.5	10.8	4.8	12.5	
Fabricated metals		11.6	7.0	11.	
Electrical machinery	14.5	10.8	8.9	10.8	
Machinery, except electrical	14.4	12.6	12.1	13.5	
Transportation equipment		15.9	16.2	17.7	
Stone, clay, and glass	11.7	9.7	9.1	9.1	
Nondurable goods 1	12.6	12.4	8.3	9.8	
Food including beverage		9.6	5.4	9.4	
Textiles		9.5	10.6	7.6	
Paper		12.5	9.0	13.4	
Chemicals		13.6	9.9	12.6	
Petroleum		18.1	11.4	7.4	
Rubber		10.9	-3.0	12.1	
Trade	10.1	8.5	11.6	9.7	
Wholesale		9.6	12.8	10.9	
Retail		7.8	10.2	8.4	
Public utilities	14.8	13.9	17.3	16.0	

^{1.} Includes industries not shown separately

Sources: Manufacturing data from Bureau of the Census, Current Industrial Reports, Series M-3, for first 10 months of 1981, and BEA estimates for November and December 1981. Trade data are from Bureau of the Census, Current Business Reports, Monthly Wholessle Trade and Monthly Retail Trade, and BEA estimates for November and December 1981. Public utility figures are estimated by BEA on basis of data collected in the annual business investment surveys.

^{*}Preliminary.
1. Plans reported by business in late November and December 1981 adjusted by BEA for assumed price changes.

cent increase, one-half last year's increase. "Other transportation" plans a 10½-percent increase and railroads, 7 percent. Electric utilities, "communication and other," and trade and services plan increases of about 6 percent. Gas utilities plan little change in spending, after a 17-percent increase last year.

Sales and sales prices

Manufacturers expect their sales to increase 11½ percent in 1982 (table 4). Their sales increased 9 percent in 1981, compared with an expected increase of 18 percent. Trade firms expect an increase of 9½ percent; last year, they had an 11½-percent increase, compared with an expected 10

Table 5.—Change in Prices of Products and Services Sold by Manufacturing and Utility
Companies

[Parcent change from preceding year]

	Reported Dec. 150	In Nov O survey	Reported in Nov Dec. 1951 survey		
	Actual 1890	Expected 1981	Actual 1981	Expected 1982	
Manufacturing	JLt	F0:1	9.2	7,1	
Derakie goods	8.9 14.5	· 8.J	E.I. 10.4	7.4 8.0	
Public utilities	L 8 .9	1d. G	12.7	14.8	

percent. Public utilities expect a 16percent increase in 1982; they had a 17½-percent increase in 1981, compared with an expected 15 percent.

Manufacturers expect the prices of the goods and services they sell to increase 7½ percent this year, less than the 9 percent they reported for last year; they had expected 10 percent last year (table 5). Public utilities expect a 15-percent increase, compared with 13½ percent last year; they had expected 14½ percent last year.